

September 2006 Update

Hill Air Force Base Superfund Site Davis and Weber Counties, Utah (Review Date 9/26/03)

Highlights Since the 2003 Review

- **Explanation of Significant Differences (ESD) finalized for Operable Units (OU) 1 and 4 September 2006**
- **Proposed Plan (OU 9) finalized 2006**
- **Remedial Investigation (RI) completed (OUs 5, 9, 11, 12).**
- **Permeable Reactive Barrier (PRB) installed (OU 12) 2005**

Brief Site History: The Hill Air Force Base (Hill AFB) site is located about 30 miles north of Salt Lake City, just west of the Wasatch Front mountain range. The land use in the area around Hill AFB includes urban, suburban, agricultural (both irrigated and dryland farming), and vacant ground. The Ogden Air Logistics Center is based out of Hill AFB and is responsible for many operations and support missions such as engineering and logistics management for various aircraft, as well as for intercontinental ballistic missiles. The maintenance and repair activities at Hill AFB generate waste including chlorinated and non-chlorinated solvents and degreasers, fuels and other hydrocarbons, acids, bases and metals. These chemicals were historically disposed of at the Industrial Wastewater Treatment Plant (IWTP), in chemical disposal pits and in landfills on the Base. In July 1987, the U.S. Environmental Protection Agency placed Hill AFB on the National Priorities List.

Cleanup Activities Completed: Cleanup activities were conducted separately for each of the 12 Operable Units at the site. A base-wide indoor air monitoring program was begun in 2003. All OUs have institutional controls in place. Groundwater use restrictions covering all OUs are in place encompassing the containment plume. All Records of Decision (ROD) are in place to be signed by 2010; 7 of 12 are complete; one (OU 5) is to be signed in September. The activities completed for each OU are given below:

OU	Cleanup Activities Completed
1	Groundwater extraction trenches installed and caps on two landfills. Monitored natural attenuation in place for non-source area groundwater plumes.
2	Containment wall encircling OU2 source area installed, source recovery system installed, pilot-scale treatability studies conducted in source area, Air Stripper Treatment Plant online, non-source area interception trenches dug.
3	In-situ vapor extraction system installed, cap installed at sodium hydroxide tank site, cap installed at Berman Pond.
4	Regrading and revegetation of landfill caps, installation of air stripper (no longer in use) to pre-treat extracted groundwater before discharge to Central Weber Sewer Improvement District, monitoring of springs/seeps.

5	Construction of aeration curtain, groundwater extraction system and groundwater extraction trench.
6	Installation of extraction wells and air strippers constructed to stop plume migration and treat ground and surface water at east plume, natural attenuation at west plume being monitored, access restrictions implemented for on-Base source area of east plume.
7	Inspection, maintenance, and monitoring program for floor slab in area of former Metal Plating Shop.
8	Installation of 8 extraction wells to pump contaminated groundwater at southern Base boundary into sanitary sewer for treatment...
9	Proposed Plan finalized early summer of 2006.
10	Remedial Investigation (RI) in progress.
11	RI report complete.
12	Base Boundary Hydraulic Containment Treatability Study System constructed. PRB wall installed off-base.

Current Status: The current status of each OU is listed below.

OU	Current Status
1	All remedial actions outlined in the ROD have been implemented except for removal of arsenic contaminated soils from the springs. An ESD is being finalized September 2006.
2	Many of the remedial actions specified in the ROD are in place; several have not yet been implemented.
3	All remedial actions have been implemented.
4	Remedial actions have only been implemented at Landfill No. 1; remedial actions have not been applied to the other four IRP sites at OU 4. An ESD is being finalized in September 2006
5	RI completed Jan. 30, 2004. A ROD is being finalized in September 2006.
6	Remedial actions have been implemented.
7	Remedial actions have been implemented.
8	Remedial actions have been implemented.
9	A Proposed Plan finalized early Summer of 2006.
10	Remedial Investigation in progress. There is both shallow and deep water groundwater contamination.
11	RI report complete. The project is on hold due to funding limitations.
12	PRB installed. Base Boundary Hydraulic Containment System constructed.

Summary of Protectiveness: Protectiveness statements have been developed for each OU. These statements are listed in the table below.

OU	Protectiveness Determination
3,7	Protective
1,2,6,8	Protectiveness cannot be determined
4,5	Protective in the short term

9	Will be protective once remedy is complete
12	Not protective
10,11	Not applicable

Issues Impacting Protectiveness: Several issues were apparent across the Base, and were not specific to a particular site, OU or remedial action. These issues are listed in the following table.

**Hill Air Force Base Superfund Site
Five-Year Review Update Table
(Review Date: 9/26/03)**

Issues	Recommendations/ Follow-up	Follow-up Actions (Status/Due Date) 9/06	Responsible Party
) Evidence of ponding and damage on landfill caps	Assess the impact of ponding and damage on landfill caps and correct activities and repair accordingly	The impact of ponding and damage on the landfill caps is still being assessed.	Air Force
) Unlocked gates and inadequate signage	Ensure that all gates are locked and adequate, descriptive signage is present where required	The gates have all been locked.	Air Force
) Insufficient evaluation of performance data conducted to date for most OUs	<ul style="list-style-type: none"> - Determine exposure potential of TCE vapors for residents near OUs with groundwater contamination that extends off-base - Conduct periodic, integrated review of O&M and LTM data to support remedy performance tracking - Conduct a check of O&M and LTM contracts to ensure that all PSVP-based items completed under one or other - Review each PSVP, update if necessary, to ensure the PSVP includes parameters necessary to monitor performance of remedy - Re-evaluate risk analyses for OU1-8 in view of new standards, more stringent toxicity factors. 	Indoor air sampling program began early in 2003.	Air Force

